

Solve for the indicated variable. Circle your final answer.

1. Solve for n : $2m + 7n = 10$

2. Solve for b : $8ab = c$

3. Solve for a : $P = a + b + c$

4. Solve for t : $D = rt + 5$

5. Solve for h : $A = \frac{1}{2}h(b_1 + b_2)$

6. ~~Solve for h : $V = \pi r^2 h$~~

7. Solve for P : $C = P(1 + 0.01r)$

8. ~~Solve for w : $S = r - w$~~

9. Solve for v : $h = -16t^2 + vt$

10. Solve for r : $C = 2\pi r$

11. ~~Solve for r : $w = -$~~

12. Solve for C : $P = R - C$

Solve for y .

13. $6x - y = -7$

14. $-x + 4y = -9$

15. $y - 4 = \frac{1}{2}(x + 3)$

16. $\frac{1}{2}(x - y) = 8$

17. The Celsius and Fahrenheit temperatures are related by the equation $C = \frac{5}{9}(F - 32)$.

A) Solve for C .

B) The overnight low was 41°F . What is this in degrees Celsius?

18. The value of an investment at simple interest is given by the formula $A = P + Prt$. A is the final value after t years at the interest rate r (as a decimal) if the initial amount P is invested.

A) Solve for t .

B) How long must \$200 be invested at 8% interest to reach a value of \$248?

19. The formula $c = 5p + 215$ relates c , the total cost in dollars of hosting a birthday party at a skating rink, to p , the number of people attending.

A) Solve the formula for p .

B) If Allie's parents are willing to spend \$300 for a party, how many people can attend?